Product Data Sheet for BA1010-1

Omnidirectional Fiberglass Antenna

These antennas feature a very broad frequency band and rugged construction. Radiating elements are constructed of copper alloy, encased in a weather resistant low loss fiberglass radome. The BA1010 "Heavy Duty" is permanently affixed to a unique mounting fixture which allows mounting on top of or along-side of most vertical supports. Due to their wide bandwidth, they are ideal for use as emergency backup antennas. Their size and mounting fixtures allow for easy storage and fast installation. Alternative mounting hardware is available for most applications.

Product Specifications

Frequency Band	VHF (25-299.9 MHz)
Horizontal Pattern	Omnidirectional
Antenna Type	Fiberglass Omni
Electrical Down Tilt Option	Fixed
Gain, dBi (dBd)	2.14 (0)
Frequency Range, MHz	146-164
Connector Type	N Female
Connector Location	Bottom
Mount Type	Fixed
Electrical Downtilt, deg	0
Mounting Hardware	Stainless Steel U-Bolts (E380-03F)
Rated Wind Speed, km/h (mph)	250 (155)
VSWR	< 1.5:1
Vertical Beamwidth, deg	80
Polarization	Vertical
Maximum Power Input, W	500
Lightning protection	Direct Ground
Flexible Extensions	None
Overall Length, m (ft)	1.43 (4.7)

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Support Pipe Diameter, m (in)	0.08 (3)
Support Pipe Length, m (ft)	0.3 (1)
Weight w/o Mtg. Hardware, kg (lb)	4 (8.8)
Radiating Element Material	Brass
Element Housing Material	Fiberglass
Support Pipe Material	Black Anodized Aluminum
Max Wind Loading Area, m^2 (ft^2)	0.08 (0.86)
Bend Mom @ Rated Wind 1" Below Top of Mt Pipe, N m (ft lbf)	90 (66.6)
Side Thrust @ Rated Wind, N (lbf)	283 (63.6)
Shipping Weight, kg (lb)	6.1 (13.5)
Packing Dimensions - HxWxD, m (ft)	1.55 x 0.12 x 0.12 (5.1 x 0.4 x 0.4)
Shipping Dimensions of Accessory - HxWxD, m (ft)	Packed w/ Antenna
Shipping Mode	UPS

Features/Benefits

• **Broadband**
Reduces backup inventory and the need for multiple antennas.

• **Fiberglass radome**
Protects radiating elements in hostile environments.

• **Copper elements**
Maximizes system performance while minimizing the possibility of intermod.